

Fumaric acid, 3,3-dimethylbut-2-yl nonadecyl ester

Inchi: InChI=1S/C29H54O4/c1-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-25-32-27(30)
InchiKey: AMOCDQDWTBOODW-WCWDXQBQESA-N
Formula: C29H54O4
SMILES: CCCCCCCCCCCCCCCCCCCCCOC(=O)C=CC(=O)OC(C)C(C)(C)C
Mol. weight [g/mol]: 466.74

Physical Properties

Property code	Value	Unit	Source
gf	-193.92	kJ/mol	Joback Method
hf	-1028.30	kJ/mol	Joback Method
hfus	65.70	kJ/mol	Joback Method
hvap	96.73	kJ/mol	Joback Method
log10ws	-9.41		Crippen Method
logp	8.715		Crippen Method
mcvol	430.050	ml/mol	McGowan Method
pc	681.36	kPa	Joback Method
rinpol	3147.00		NIST Webbook
rinpol	3147.00		NIST Webbook
tb	1015.99	K	Joback Method
tc	1255.41	K	Joback Method
tf	543.25	K	Joback Method
vc	1.671	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1511.33	J/mol×K	1015.99	Joback Method
cpg	1533.54	J/mol×K	1055.89	Joback Method
cpg	1554.09	J/mol×K	1095.80	Joback Method
cpg	1573.09	J/mol×K	1135.70	Joback Method
cpg	1590.67	J/mol×K	1175.60	Joback Method
cpg	1606.96	J/mol×K	1215.51	Joback Method
cpg	1622.07	J/mol×K	1255.41	Joback Method
dvisc	0.0002554	Pa×s	543.25	Joback Method

dvisc	0.0000997	Pa×s	622.04	Joback Method
dvisc	0.0000481	Pa×s	700.83	Joback Method
dvisc	0.0000269	Pa×s	779.62	Joback Method
dvisc	0.0000167	Pa×s	858.41	Joback Method
dvisc	0.0000113	Pa×s	937.20	Joback Method
dvisc	0.0000081	Pa×s	1015.99	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U348718&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/54-246-9/Fumaric-acid-3-3-dimethylbut-2-yl-nonadecyl-ester.pdf>

Generated by Cheméo on 2025-12-05 10:10:35.648483779 +0000 UTC m=+4677633.178524438.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.